

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all previous listings and versions of claim in this application.

Claims 1. to 22. (Cancelled)

23. (Previously Presented) A method for operating a food product dispenser in the form of a single unit defined by an outer housing and including a food delivery mechanism having a mixing bowl for preparing a food or food component, a conduit for dispensing the prepared food or food component from the mixing bowl to an outlet along a dispensing path, a cleansing fluid supply located within the housing, and a cleansing fluid path that at least partially includes that portion of the dispensing path from the mixing bowl to the outlet, the method comprising:

preparing the food or food component in the mixing bowl;

dispensing servings of the food or food component from the food delivery mechanism along the dispensing path to the outlet;

periodically directing a cleansing fluid along the cleansing fluid path from the cleansing fluid supply located within the housing through the food delivery mechanism and along the component dispensing path to conduct a cleaning operation on at least that portion of the dispensing path when the food or food component is not being dispensed, and recirculating the cleansing fluid within the housing and back to the cleansing fluid supply;

rinsing at least that portion of the dispensing path after the cleaning operation to remove cleansing fluid therefrom by directing hot water alone to the at least a portion of the dispensing path to conduct a sanitizing operation, wherein the hot water is at a temperature which is sufficient to sanitize the at least a portion of the dispensing path; and

switching between the dispensing of the food or food component and the conducting of the cleaning and sanitizing operations at a plurality of time intervals without having to connect an external source of cleaning fluid to the dispensing path each time cleaning is needed.

Claims 24. to 28. (Cancelled)

29. (Previously presented) The method of claim 23, wherein the sanitizing operation is conducted a plurality of times between the cleaning operations.

30. (Original) The method of claim 23, further comprising heating the cleansing fluid in the fluid path.

31. (Previously presented) The method of claim 23, further including automatically determining with a controller device when one of the cleaning and sanitizing operations will begin and sending one of a cleaning start signal and a sanitizing start signal, wherein the cleaning start signal automatically starts the cleaning operation and wherein the sanitizing start signal automatically starts the sanitizing operation.

Claims 32. to 34. (Cancelled)

35. (Previously presented) The method of claim 23, conducted by a controller in the food product dispenser, wherein the food delivery-mechanism further comprises:
a dispensing mechanism configured for dispensing servings of the food or food component from the conduit along the dispensing path and through the outlet; and

the dispenser includes a first mechanism comprising a cleansing conduit connected to the food delivery mechanism to form an entry point therunto and for directing the cleansing fluid along the cleansing fluid path in cleansing association with the food delivery mechanism under conditions for performing the cleaning operation on the portion of the dispensing path;

wherein the controller is electrically connected to the first mechanism for activating the first mechanism at the intervals to cleanse the portion of the dispensing path automatically in response to predetermined conditions, and the controller, delivery mechanism and first mechanism are configured to switch between the dispensing of the servings and the cleaning operation.

36. (Previously presented) The method of claim 35, which further comprises configuring the first mechanism for conducting the cleaning operation without interrupting delivery of the product.

37. (Previously presented) The method of claim 36, which further comprises providing the cleaning operation with a duration that is selected to interrupt the dispenser for between about 10 and about 20 minutes.

Claims 38. to 41. (Cancelled)

42. (Previously presented) The method of claim 35, which further comprises: configuring the first mechanism for performing the cleaning and sanitizing operations; and configuring the controller for automatically operating the first mechanism for selectively conducting one of the cleaning and sanitizing operations, with the sanitizing operation conducted several times per day.

Claims 43. to 46. (Cancelled)

47. (Previously presented) The method of claim 35, which further comprises configuring the first mechanism to conduct the cleaning operation using a cleansing fluid selected from at least one of the group consisting of (i) a detergent, (ii) a caustic material, and (iii) an acid material, and the sanitizing operation using hot water.

48. (Previously Presented) The method of claim 35, which further comprises configuring the dispenser to dispense product servings of a single serving to about 10 servings at one time wherein each product serving is sized for consumption by an individual.

Claim 49. (Cancelled)

50. (Previously Presented) The method of claim 35, which further comprises recirculating the cleansing fluid through the cleansing fluid path.

51. (Currently Amended) The method of claim 50, which further comprises providing the dispenser with ~~wherein the food product further includes~~ a heating device located

within the housing, and wherein the method further comprises heating the cleansing fluid as the cleansing fluid is recirculated through the cleansing fluid path.

52. (Previously Presented) The method of claim 50, which further comprises providing the first mechanism with a reservoir in fluid communication with the cleansing fluid path configured to hold a volume of the cleansing fluid.

53. (Previously Presented) The method of claim 35, which further comprises configuring the controller to activate the first mechanism at predetermined intervals for sanitizing a portion of the delivery mechanism.

54. (Previously presented) The method of claim 35, which further comprises providing a dispenser housing that houses the food source, bowl, food conduit, dispensing mechanism, and first mechanism.

55. (Currently Amended) The method of claim [[53]] 23, wherein the dispenser includes a source of food product and a source of cleansing fluid so that it is unnecessary for an operator to connect an external source of food product or cleansing fluid to perform a dispensing or cleaning operation.

56. (Previously Presented) The method of claim 35, wherein the first mechanism is operably associated with the food conduit and dispensing path and is configured to cleanse the food conduit and dispensing mechanism.

57. (Previously presented) The method of claim 23, wherein the food product is a milk-based product, and the hot water has a temperature of between about 75°C and about 95°C.

58. (Previously Presented) A method for operating a food product dispenser in the form of a single unit defined by an outer housing and including a food delivery mechanism having a mixing bowl for preparing a food or food component, a conduit for dispensing the prepared food or food component from the mixing bowl to an outlet along a dispensing path, a

cleansing fluid supply located within the housing, and a cleansing fluid path that at least partially includes that portion of the dispensing path from the mixing bowl to the outlet, the method comprising:

preparing a food or food component that is milk-based within the mixing bowl;

dispensing the food or food component product that is milk based from the mixing bowl of the food delivery mechanism along the dispensing path to the outlet;

periodically conducting a cleaning operation on at least a portion of the dispensing path when the food or food component is not being dispensed by directing a cleansing fluid along the cleansing fluid path from the cleansing fluid supply located within the housing through the food delivery mechanism and along the food or food component dispensing path, and recirculating the cleansing fluid back to the cleansing fluid supply;

conducting a sanitizing operation after the cleaning operation by directing hot water alone along at least that portion of the dispensing path that has encountered the milk based product, wherein the hot water is at a temperature which is sufficiently hot to reduce microbiological deposits and sanitize that portion of the dispensing path; and

switching between the dispensing of the food or food component and the conducting of the cleaning and sanitizing operations at a plurality of time intervals during a day automatically according to a time controlled cleansing program or upon request of an operator without having to connect an external source of cleaning fluid to the dispensing path each time cleaning is needed.

Claim 59. (Cancelled)

60. (Previously presented) The method of claim 58, wherein the hot water has a temperature between about 70° C and about 95° C and is directed along the fluid path at a velocity between about 0.2 to 2.0 m/s to cause flow along the fluid path and to sanitize that portion of the dispensing path.

61. (Previously Presented) The method of claim 60, wherein the hot water is directed at intervals occurring once about every 10 minutes to about every 12 hours and with the interval

including a fluid directing time period of between about 30 seconds and about 30 minutes during which period the dispensing of the food product is interrupted.

62. (Previously Presented) A method for operating a food product dispenser in the form of a single unit defined by an outer housing and including a food delivery mechanism having a mixing bowl for preparing a food or food component, a conduit for dispensing the prepared food or food component from the mixing bowl to an outlet along a dispensing path, a cleansing fluid supply located within the housing, and a cleansing fluid path that at least partially includes that portion of the dispensing path from the mixing bowl to the outlet, the method comprising:

preparing the food or food component in the mixing bowl;

dispensing servings of the food or food component from the food delivery mechanism along the dispensing path to the outlet;

directing a cleansing fluid along a cleansing fluid path from the cleansing fluid supply located within the housing through the food delivery mechanism to conduct a first cleaning operation on at least a portion of the dispensing path, and recirculating the cleansing fluid within the unit through the cleansing fluid path;

periodically directing cleansing fluid along the cleansing fluid path through the food delivery mechanism and along the food or food component dispensing path to conduct a second cleaning operation on at least that portion of the dispensing path when the food or food component is not being dispensed, wherein the second cleaning operation occurs a period of time after the first cleaning operation, and recirculating the cleansing fluid back to the cleansing fluid supply;

rinsing at least that portion of the dispensing path to remove cleansing fluid therefrom; directing hot water alone to at least that portion of the dispensing path after the cleaning operation to remove cleansing fluid therefrom to thus conduct at least one sanitizing operation during the period of time between the first and second cleaning operations, wherein the hot water is at a temperature which is sufficiently hot to reduce microbiological deposits and sanitize at least that portion of the dispensing path; and

switching between the dispensing of the food or food component and the conducting of the cleaning and sanitizing operations at a plurality of time intervals without having to connect an external source of cleaning fluid to the dispensing path each time cleaning is needed.

Claims 63. to 66. (Cancelled)

67. (Previously Presented) The method of claim 51, wherein the cleansing fluid has a first temperature in the portion of the dispensing path at the beginning of the cleaning operation, and the cleansing fluid is recirculated through the cleansing fluid path to be heated by the heater increase the temperature during the recirculation in the cleaning operation.